The Absorption Spectra of Thiourea and Potassium Iodide on Nickel Metal

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Abstract

The absorption spectra of thiourea molecules adsorbed on nickel surfaces in acid aqueous solutions have been observed by means of reflection cells. A new band did not appear in the observed region, but the intensity of the absorption band at 236mμ decreased remarkably. The absorption spectra of potassium iodide have also been observed with reflection cells. For acidic solutions an absorption band at 226mμ decreased in intensity and a new band appeared at 310mμ, while for the solutions in pure water no change in the spectrum has been observed. The observed results have been discussed and a hypothesis of surface complex formation presented.

* The **1194th** report of the Research Institute for Iron, Steel and Other Metals. Published in the Bulletin of the Chemical Society of Japan, **37** (1964), 1121.